# 8月19日

# 笔记

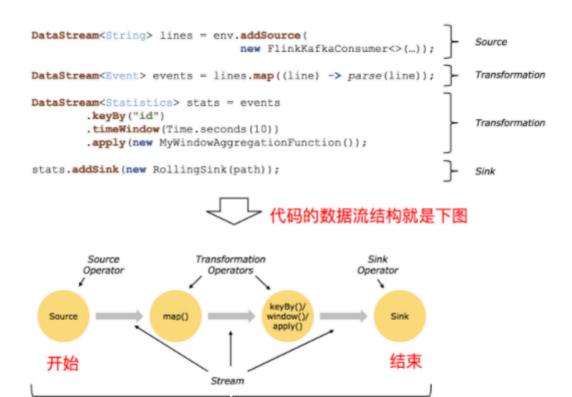
### 哈希算法作用:

- 1. 安全加密:哈希算法应用之安全加密,MD5和SHA。
- 2. 唯一标识
- 3. 数据校验, 检验下载的文件是否完整或被恶意篡改
- 4. 散列函数
- 5. 负载均衡。客户端ip地址进行哈希, 然后取模运算
- 6. 数据分片。同一关键词哈希一样,会被放到一个服务器中,方便统计次数
- 7. 判断图片是否在图库中。在服务器中使用散列表存储图片,用哈希函数计算图片哈希,分配不同的服务器
- 8. 分布式存储, 一致性哈希

#### flink

#### flink程序的数据流结构:

- source:数据输入,flink在流处理和批处理上的source有:本地集合的source、文件的source、网络套接字的 source、自定义的source一般有kafka、mg、nifi
- transtformation:数据转换的各种操作,有map, flatmap, filter, keyby, reduce, fold, split, select 等操作,可以将数据转换计算成想要的数据
- sink:数据输出,flink将转换尖酸后的数据发送的地点,有:文件,打印,写入socket、自定义sink:kafka、rabbitmq、mysql、es、hadoop filesys



Streaming Dataflow

## 有很多不同版本的connector

# flink-connectors ▶ **|** flink-connector-cassandra [flink-connector-cassandra\_2.11] Flink-connector-elasticsearch2 [flink-connector-elasticsearch2\_2.11] ▶ ☐ flink-connector-elasticsearch5 [flink-connector-elasticsearch5\_2.11] ▶ ☐ flink-connector-elasticsearch6 [flink-connector-elasticsearch6\_2.11] ▶ 📑 flink-connector-elasticsearch-base [flink-connector-elasticsearch-base\_2.11] ▶ **|** flink-connector-filesystem [flink-connector-filesystem\_2.11] ▶ 📑 flink-connector-gcp-pubsub [flink-connector-gcp-pubsub\_2.11] ▶ ☐ flink-connector-hive [flink-connector-hive\_2.11] flink-connector-kafka [flink-connector-kafka\_2.11] ▶ **|** flink-connector-kafka-0.8 [flink-connector-kafka-0.8\_2.11] ▶ **I**flink-connector-kafka-0.9 [flink-connector-kafka-0.9\_2.11] ▶ 📑 flink-connector-kafka-0.10 [flink-connector-kafka-0.10\_2.11] flink-connector-kafka-0.11 [flink-connector-kafka-0.11\_2.11] ▶ **|** flink-connector-kafka-base [flink-connector-kafka-base\_2.11] flink-connector-kinesis [flink-connector-kinesis\_2.11] flink-connector-nifi [flink-connector-nifi\_2.11] ▶ 📑 flink-connector-rabbitmq [flink-connector-rabbitmq\_2.11] ▶ ☐ flink-connector-twitter [flink-connector-twitter\_2.11] ▶ **I**flink-hadoop-compatibility [flink-hadoop-compatibility\_2.11] ▶ ☐ flink-hbase [flink-hbase\_2.11] flink-hcatalog ▶ **∏** flink-jdbc flink-orc [flink-orc\_2.11] Flink-sql-connector-elasticsearch6 [flink-sql-connector-elasticsearch6\_2.11] ▶ **|** flink-sql-connector-kafka [flink-sql-connector-kafka\_2.11] Flink-sql-connector-kafka-0.9 [flink-sql-connector-kafka-0.9\_2.11] ▶ 📑 flink-sql-connector-kafka-0.10 [flink-sql-connector-kafka-0.10\_2.11] ▶ 📑 flink-sql-connector-kafka-0.11 [flink-sql-connector-kafka-0.11\_2.11]

target

flink-connectors.iml

m pom.xml